

Flood Control Project Maintenance
2009 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District

Ash Slough Drop Structure No. 1

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Monolith Joints	A

Ash Slough Drop Structure No. 2

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Erosion / Bank Caving	A
	Revetments	A
	Encroachments	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Monolith Joints	A

Ash Slough Drop Structure No. 3

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Revetments	A
	Encroachments	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Monolith Joints	A

Ash Slough Drop Structure No. 4

Overall Unit Rating	Rated Item	Item Rating
M	Vegetation & Obstructions	M
	Revetments	A
	Encroachments	M
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Monolith Joints	A

Bear Creek Diversion Structure

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Revetments	A
	Encroachments	A
	Electric Gate Operators	A
	Concrete Surfaces	M
	Concrete Foundations	A
	Monolith Joints	A

Flood Control Project Maintenance
2009 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Eastside Bypass Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Plant Building	A
	Revetments	A
	Encroachments	A
	Sluice/Slide Gates	A
	Electric Gate Operators	A
	Concrete Surfaces	A
	Concrete Foundations	A
	Other Metallic Items	A
	Monolith Joints	A

Eastside Bypass Drop Structure No. 1

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Revetments	A
	Encroachments	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Monolith Joints	A

Eastside Bypass Drop Structure No. 2

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Revetments	A
	Encroachments	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Monolith Joints	A

Fresno River Drainage Structure

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Revetments	A
	Encroachments	A
	Culverts: Inlets / Outlets	A
	Flap Gates	A
	Manual Gate Operators	M

Flood Control Project Maintenance
2009 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

Mariposa Bypass Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Motors, Engines, Fans & Gear Reducers	A
	Vegetation & Obstructions	A
	Revetments	A
	Electric Gate Operators	A
	Concrete Surfaces	A
	Concrete Foundations	A
	Closure Structures	A
	Other Metallic Items	A
	Monolith Joints	A

Mariposa Bypass Drop Structure

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Encroachments	A
	Concrete Surfaces	A
	Concrete Foundations	A
	Monolith Joints	A

Owens Creek Control Structure

Overall Unit Rating	Rated Item	Item Rating
M	Vegetation & Obstructions	A
	Encroachments	A
	Concrete Surfaces	U
	Concrete Foundations	A
	Closure Structures	A

Owens Creek Overflow Structure

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Revetments	M
	Culverts: Inlets / Outlets	A
	Concrete Surfaces	A
	Concrete Foundations	A

San Joaquin River And Chowchilla Canal Bypass Control Structure

Overall Unit Rating	Rated Item	Item Rating
A	Vegetation & Obstructions	A
	Revetments	A
	Encroachments	A
	Sluice/Slide Gates	M
	Electric Gate Operators	A
	Concrete Surfaces	A
	Concrete Tilting / Settlement	A
	Concrete Foundations	A
	Monolith Joints	A

Flood Control Project Maintenance
2009 Structure Summary Report
Overall Unit and Item Ratings

Lower San Joaquin Levee District (cont.)

San Joaquin River Structure And Sand Slough Structure

Overall Unit Rating	Rated Item	Item Rating
M	Vegetation & Obstructions	M
	Revetments	A
	Encroachments	A
	Manual Gate Operators	A
	Concrete Surfaces	M
	Concrete Foundations	A

Flood Control Project Maintenance
Unit Cover Sheet
2009 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Ash Slough Drop Structure No. 1

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	8
2			Structures	Vegetation & Obstructions		A		°	°		5
3			Structures	Erosion / Bank Caving		A		°	°	Y	6
4			Structures	Revetments		A		°	°		3
5			Structures	Encroachments		A		°	°		4
6			Structures	Concrete Tilting / Settlement		A		°	°		2
7			Structures	Concrete Foundations		A		37.033979 ° -120.442008 °	37.033979 ° -120.442008 °		1
8			Structures	Monolith Joints		A		°	°		7

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 1		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of structure for the left bank.

richard_20090804_81.jpg



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of downstream side of the structure from the left bank.

richard_20090804_82.jpg



Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Erosion / Bank Caving

Looking at minor erosion on the left wing wall

richard_20090708_2.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 2

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector		
Ash Slough Drop Structure No. 2							07/21/2009	Richard Willoughby		

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	8
2			Structures	Vegetation & Obstructions		A		°	°		5
3			Structures	Erosion / Bank Caving		A		°	°		6
4			Structures	Revetments		A		°	°		3
5			Structures	Encroachments		M	Inspector Comments: Remove Sand pile	°	°		4
6			Structures	Concrete Tilting / Settlement		A		°	°		2
7			Structures	Concrete Foundations		A		37.037882 ° -120.440365 °	37.037882 ° -120.440365 °		1
8			Structures	Monolith Joints		A		°	°		7

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 2		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview downstream side of structure from the left bank	
richard_20090804_79.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of structure for the left bank	
richard_20090804_80.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 3

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	7
2			Structures	Vegetation & Obstructions		A		°	°		5
3			Structures	Revetments		A		°	°		3
4			Structures	Encroachments		A		°	°		4
5			Structures	Concrete Tilting / Settlement		A		°	°		2
6			Structures	Concrete Foundations		A		37.042928 ° -120.436563 °	37.042928 ° -120.436563 °		1
7			Structures	Monolith Joints		A		°	°		6

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 3		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of structure from the left bank.

richard_20090804_77.jpg



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at downstream side of structure from the left bank.

richard_20090804_78.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Ash Slough Drop Structure No. 4

Structure Rating	M
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector		
Ash Slough Drop Structure No. 4							07/21/2009	Richard Willoughby		

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	7
2			Structures	Vegetation & Obstructions		M		°	°		5
3			Structures	Revetments		A		°	°		3
4			Structures	Encroachments		M	Inspector Comments: Non-permitted seasonal sand dam on the upstream side is for irrigation purpose and can be easily breached or washed out in the event of high water. Landowner should apply for an permit to maintain dam structure	°	°	Y	4
5			Structures	Concrete Tilting / Settlement		A		°	°		2
6			Structures	Concrete Foundations		A		37.045667 ° -120.430103 °	37.045667 ° -120.430103 °		1
7			Structures	Monolith Joints		A		°	°		6

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Ash Slough Drop Structure No. 4		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of structure downstream side.

richard_20090804_75.jpg



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at upstream side of structure.

richard_20090804_76.jpg



Levee Mile Report Line	4
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Encroachments

Looking at seasonal sand dam on the upstream side of the structure

richard_20090708_8.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

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M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Bear Creek Diversion Structure

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector		
Bear Creek Diversion Structure							07/20/2009	Richard Willoughby		

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation	CR			°	°		8
2			Structures	Vegetation & Obstructions	CR	A		°	°		2
3			Structures	Revetments	CR	A		°	°		4
4			Structures	Encroachments	CR	A		°	°		6
5			Structures	Electric Gate Operators	CR	A	Inspector Comments: A new electric gate was installed by Stevenson Water Irrigation District to release water to wildlife reserve. This gate was installed without the permission of the CVFPB.	°	°	Y	5
6			Structures	Concrete Surfaces	CR	M	Inspector Comments: Minor cracking on downstream side on the north wing wall. Monitor and repair the cracks in the abutments as needed.	°	°	Y	3
7			Structures	Concrete Foundations	CR	A		37.254956 ° -120.718385 °	37.254956 ° -120.718385 °	Y	1
8			Structures	Monolith Joints	CR	A		°	°		7

*** Location**

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**** Rating**

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/20/2009	Richard Willoughby

Levee Mile Report Line	5
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Electric Gate Operators
A Automatic Tide Flow Gate on upstream side of the structure	
richard_20090708_13.JPG	



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Concrete Surfaces
Crack on the downstream north wing wall.	
richard_20090708_12.JPG	



Levee Mile Report Line	7
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Concrete Foundations
Looking at the downstream side of the structure.	
richard_20090708_9.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Bear Creek Diversion Structure		07/20/2009	Richard Willoughby

Levee Mile Report Line	7
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Concrete Foundations
Looking at the automatic tide flow gate on the upstream side of the structure	
richard_20090708_10.JPG	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Control Structure

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Pump Stations	Plant Building		A		°	°	Y	8
2			Pump Stations	Motors, Engines, Fans & Gear Reducers		N		°	°	Y	9
3			Structures	Photo Documentation				°	°	Y	11
4			Structures	Revetments		A		°	°		10
5			Structures	Encroachments		A		°	°		6
6			Structures	Sluice/Slide Gates		A	Inspector Comments: Lube (grease) conduits are disconnected at hing point.	°	°	Y	4
7			Structures	Electric Gate Operators		A		°	°		2
8			Structures	Concrete Surfaces		A		°	°		3
9			Structures	Concrete Foundations		A		37.204817 ° -120.697035 °	37.204817 ° -120.697035 °		1
10			Structures	Other Metallic Items		A		°	°		5
11			Structures	Monolith Joints		A		°	°		7

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Pump Stations
Item	Plant Building

Looking at overview of plant building

richard_20090803_64.jpg



Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Pump Stations
Item	Motors, Engines, Fans & Gear Reducers

Looking at motors and gates on the upstream side of the structure

richard_20090708_16.jpg



Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of structure on the downstream side

richard_20090803_62.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
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PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Control Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of structure on the upstream side	
richard_20090803_63.jpg	



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking at lube conduit disconnected from hing point at gate.	
richard_20090803_65.jpg	



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking at lube port disconnected from hing point of gate.	
richard_20090803_66.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Drop Structure No. 1

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	7
2			Structures	Vegetation & Obstructions		A		°	°		5
3			Structures	Revetments		A		°	°		3
4			Structures	Encroachments		A		°	°		4
5			Structures	Concrete Tilting / Settlement		A		°	°		2
6			Structures	Concrete Foundations		A		36.975197 ° -120.382073 °	36.975197 ° -120.382073 °		1
7			Structures	Monolith Joints		A		°	°		6

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 1		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of structure from the left bank.

richard_20090804_89.jpg



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation

Looking at overview of structure and guage station from the left bank.

richard_20090804_90.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Eastside Bypass Drop Structure No. 2

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	7
2			Structures	Vegetation & Obstructions		A		°	°		5
3			Structures	Revetments		A		°	°		3
4			Structures	Encroachments		A		°	°		4
5			Structures	Concrete Tilting / Settlement		A		°	°		2
6			Structures	Concrete Foundations		A		36.976195 ° -120.374822 °	36.976195 ° -120.374822 °		1
7			Structures	Monolith Joints		A		°	°		6

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Eastside Bypass Drop Structure No. 2		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of downstream side from the left bank.	
richard_20090804_86.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of structure from the left bank.	
richard_20090804_87.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at upstream side of structure from the left bank.	
richard_20090804_88.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Fresno River Drainage Structure

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				36.975460 ° -120.359655 °	36.975460 ° -120.359655 °	Y	8
2			Structures	Vegetation & Obstructions		A		° °	° °	Y	7
3			Structures	Revetments		A		° °	° °		5
4			Structures	Encroachments		A		° °	° °		6
5			Structures	Culverts: Inlets / Outlets		A		° °	° °		2
6			Structures	Flap Gates		A		° °	° °	Y	3
7			Structures	Manual Gate Operators		M	Inspector Comments: Screw gate control wheel are missing and broke. Need to repair or replace gate control wheel.	° °	° °	Y	4

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at screw gates	
richard_20090804_83.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of inlet side of structure	
richard_20090804_84.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of outlet side of structure	
richard_20090804_85.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Fresno River Drainage Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Vegetation & Obstructions
Looking at pipe inlet blocked with tumble weeds.	
richard_20090708_23.jpg	



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Flap Gates
Looking at flap gates in good operating conditions.	
richard_20090708_21.jpg	



Levee Mile Report Line	7
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Manual Gate Operators
Looking at broken and missing screw gate wheels.	
richard_20090708_22.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Mariposa Bypass Control Structure

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Pump Stations	Motors, Engines, Fans & Gear Reducers		A	Inspector Comments: Electrical equipment in good conditions.	°	°		3
2			Structures	Photo Documentation				°	°	Y	10
3			Structures	Vegetation & Obstructions		A		°	°		4
4			Structures	Revetments		A		°	°	Y	5
5			Structures	Electric Gate Operators		A		°	°		6
6			Structures	Concrete Surfaces		A		°	°		2
7			Structures	Concrete Foundations		A		37.201922 ° -120.694810 °	37.201922 ° -120.694810 °		1
8			Structures	Closure Structures		A		°	°		7
9			Structures	Other Metallic Items		A		°	°		8
10			Structures	Monolith Joints		A		°	°		9

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Control Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of downstream side of structure.	
richard_20090803_67.jpg	



Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of upstream side of structure.	
richard_20090803_68.jpg	



Levee Mile Report Line	4
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Revetments
Looking at vegetation growth on the revetment on the upstream side of the structure	
richard_20090708_27.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Mariposa Bypass Drop Structure

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	6
2			Structures	Vegetation & Obstructions		A		°	°		4
3			Structures	Encroachments		A		°	°		3
4			Structures	Concrete Surfaces		A		°	°		5
5			Structures	Concrete Foundations		A		37.202181 ° -120.755237 °	37.202181 ° -120.755237 °		1
6			Structures	Monolith Joints		A	Inspector Comments: Need to monitor joint for movement	°	°	Y	2

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Mariposa Bypass Drop Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of structure on upstream side.	
richard_20090803_58.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking south at overview of structure.	
richard_20090803_59.jpg	



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Monolith Joints
Looking at left bank wing wall monolith joint	
richard_20090708_29.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
Owens Creek Control Structure

Structure Rating	M
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector		
Owens Creek Control Structure							07/20/2009	Richard Willoughby		

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				37.219700 ° -120.697977 °	37.219700 ° -120.697977 °	Y	6
2			Structures	Vegetation & Obstructions		A		° °	° °		1
3			Structures	Encroachments		A		° °	° °		2
4			Structures	Concrete Surfaces		U	Inspector Comments: Downstream side north wing wall is badly damage and should be replace.	° °	° °	Y	3
5			Structures	Concrete Foundations		A	Inspector Comments: This structure was in existence prior to the construction of the project and is a part of the LSJLD, but is operated by Steveson Water Irrigation District formerly the Eastside Canal Company.	° °	° °		4
6			Structures	Closure Structures		A		° °	° °		5

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Control Structure		07/20/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Overview of the upstream side of structure.	
richard_20090803_57.jpg	



Levee Mile Report Line	4
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Concrete Surfaces
Looking at damage wing wall on the left bank of the downstream side of the structure	
richard_20090708_31.jpg	



Levee Mile Report Line	4
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Concrete Surfaces
Looking at cracks on the right bank on the upstream side of the structure	
richard_20090708_32.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance
Unit Cover Sheet
2009 Structure Inspection Results

Lower San Joaquin Levee District

Structure
Owens Creek Overflow Structure

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector	
Owens Creek Overflow Structure							07/21/2009	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	6
2			Structures	Vegetation & Obstructions		A	Inspector Comments: Control vegetation growth at the discharge side of the structure.	°	°	Y	4
3			Structures	Revetments		M		°	°	Y	5
4			Structures	Culverts: Inlets / Outlets		A		°	°	Y	2
5			Structures	Concrete Surfaces		A		°	°		3
6			Structures	Concrete Foundations		A		37.205781 ° -120.696850 °	37.205781 ° -120.696850 °		1

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of structure on upstream side (control gates) of the structure	
richard_20090803_61.jpg	



Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Vegetation & Obstructions
Looking at downstream of structure, control vegetation	
richard_20090803_60.jpg	



Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Revetments
Looking at vegetation on the discharge side of the structure.	
richard_20090708_37.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
Owens Creek Overflow Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	4
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Culverts: Inlets / Outlets
View of the two 72 inch slide gates on the inlet side of the structure in good working condition.	
richard_20090708_36.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River And Chowchilla Canal Bypass Control Structure

Structure Rating	A
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure						Structure Length	Inspection Start/End	Inspector	
San Joaquin River And Chowchilla Canal Bypass Control Structure							07/21/2009	Richard Willoughby	

LMR No.	Levee Mile		Category	Item	Location	Rating	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Pump Stations	Motors, Engines, Fans & Gear Reducers			Item inspected visually only. Item was not operated during the inspection.	°	°		9
2			Structures	Photo Documentation			Inspector Comments: San Joaquin Structure	°	°	Y	17
3			Structures	Photo Documentation			Inspector Comments: Chowchilla Canal Bypass Structure	°	°	Y	18
4			Structures	Vegetation & Obstructions		A		°	°		2
5			Structures	Vegetation & Obstructions		A		°	°		11
6			Structures	Vegetation & Obstructions		A		°	°	Y	6
7			Structures	Revetments		A		°	°		4
8			Structures	Encroachments		A		°	°		12
9			Structures	Encroachments		A		°	°		3
10			Structures	Sluice/Slide Gates		M	Inspector Comments: Gate lube ports broken at hing point.	°	°	Y	14
11			Structures	Sluice/Slide Gates		M	Inspector Comments: Gate lube ports broken at hing point	°	°	Y	5
12			Structures	Electric Gate Operators		A		°	°	Y	13
13			Structures	Concrete Surfaces		A		°	°		15
14			Structures	Concrete Surfaces		A		°	°		7
15			Structures	Concrete Tilting / Settlement		A		°	°		8
16			Structures	Concrete Foundations		A	Inspector Comments: San Joaquin Structure	36.773334 ° -120.285210 °	36.773334 ° -120.285210 °		1
17			Structures	Concrete Foundations		A	Inspector Comments: Chowchilla Canal Bypass Structure	36.773967 ° -120.284425 °	36.773967 ° -120.284425 °		10

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/21/2009	Richard Willoughby

LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
18			Structures	Monolith Joints		A		°	°		16
								°	°		

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of upstream side of structure	
richard_20090805_92.jpg	



Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of downstream side of structure	
richard_20090805_93.jpg	



Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of upstream side of structure	
richard_20090805_94.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of downstream side of structure.	
richard_20090805_95.jpg	



Levee Mile Report Line	6
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Vegetation & Obstructions
Looking at motors and gates on the downstream of the structure.	
richard_20090708_40.jpg	



Levee Mile Report Line	10
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking at lube port conduit extension broken at hing point of gate arm.	
richard_20090805_91.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River And Chowchilla Canal Bypass Control Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Sluice/Slide Gates
Looking at broken lube port conduit broken at hing point of gate arm.	
richard_20090805_96.jpg	



Levee Mile Report Line	12
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Electric Gate Operators
Looking at electric gates and motors.	
richard_20090708_43.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

Flood Control Project Maintenance**Unit Cover Sheet****2009 Structure Inspection Results****Lower San Joaquin Levee District**

Structure
San Joaquin River Structure And Sand Slough Structure

Structure Rating	M
Date of Inspection	7/8/2009
DWR Inspector	Richard Willoughby
Accompanied By	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure							Structure Length	Inspection Start/End	Inspector		
San Joaquin River Structure And Sand Slough Structure								07/21/2009	Richard Willoughby		
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Photo	Issue No.
	Start	End						Start	End		
1			Structures	Photo Documentation				°	°	Y	11
2			Structures	Photo Documentation			Inspector Comments: San Joaquin Structurcef	°	°	Y	10
3			Structures	Vegetation & Obstructions		M	Inspector Comments: Need to control wild growth on inlet side of the structure	°	°	Y	8
4			Structures	Vegetation & Obstructions		A		°	°		3
5			Structures	Revetments		A		°	°		2
6			Structures	Encroachments		A		°	°		9
7			Structures	Encroachments		A		°	°		4
8			Structures	Manual Gate Operators		A		°	°	Y	6
9			Structures	Concrete Surfaces		M	Inspector Comments: Small Cracking on right W ing Wall	°	°		7
10			Structures	Concrete Foundations		A	Inspector Comments: Sand Slough Structure	37.112333 ° -120.589584 °	37.112333 ° -120.589584 °		5
11			Structures	Concrete Foundations		A	Inspector Comments: San Joaquin River Structure	37.112570 ° -120.588940 °	37.112570 ° -120.588940 °	Y	1

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking south at overview of structure (Screw gates)	
richard_20090803_71.jpg	



Levee Mile Report Line	1
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of outlet side of structure and overgrown of vegetation.	
richard_20090803_73.jpg	



Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of structure for Washington Road Bridge (north)	
richard_20090803_69.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	2
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Photo Documentation
Looking at overview of structure from the right bank.	
richard_20090803_70.jpg	



Levee Mile Report Line	3
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Vegetation & Obstructions
Looking at overgrown of vegetation at outlet of structure	
richard_20090803_74.jpg	



Levee Mile Report Line	8
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Manual Gate Operators
Looking at the manual gates on the outlet side of the structure.	
richard_20090708_47.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Structure 2009

Lower San Joaquin Levee District

Structure	Structure Length	Inspection Start/End	Inspector
San Joaquin River Structure And Sand Slough Structure		07/21/2009	Richard Willoughby

Levee Mile Report Line	11
Start Levee Mile	
End Levee Mile	
Location	
Category	Structures
Item	Concrete Foundations
Looking at damage on the right corner of upstream of structure	
richard_20090803_72.jpg	

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
PO : Partially Obstructing
CO : Completely Obstructing
N : Not Inspected